

sequence listing.ST25.txt  
SEQUENCE LISTING

<110> Health Research Organization  
Philpott, Sean  
Burger, Harold  
Weiser, Barbara

<120> Analysis of HIV-1 Coreceptor Use in the Clinical Care of HIV-1  
Infected Patients

<130> 454311-2220.1

<140> 09/963,064  
<141> 2001-09-25

<150> 60/235,671  
<151> 2000-09-26

<150> 60/282,354  
<151> 2001-04-06

<160> 34

<170> PatentIn version 3.2

<210> 1  
<211> 35  
<212> PRT  
<213> Human immunodeficiency virus type 1

<400> 1

Cys Ile Arg Pro Asn Asn Asn Thr Arg Thr Ser Ile Arg Ile Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asn Ile Ile Gly Asp Ile Arg Gln  
20 25 30

Ala Tyr Cys  
35

<210> 2  
<211> 35  
<212> PRT  
<213> Human immunodeficiency virus type 1

<400> 2

Cys Ile Arg Pro Asn Asn Asn Thr Arg Thr Ser Ile Arg Ile Gly Pro  
1 5 10 15

Arg Gln Ala Phe Tyr Ala Thr Gly Asn Ile Ile Gly Asp Ile Arg Gln  
20 25 30

Ala Tyr Cys  
35

sequence listing.ST25.txt

<210> 3  
 <211> 35  
 <212> PRT  
 <213> Human immunodeficiency virus type 1  
 <400> 3  
 Cys Ile Arg Pro Asn Asn Asn Thr Arg Thr Ser Ile Arg Ile Gly Pro  
 1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asn Ile Val Gly Asp Ile Arg Gln  
 20 25 30

Ala Tyr Cys  
 35

<210> 4  
 <211> 27  
 <212> PRT  
 <213> Human immunodeficiency virus type 1  
 <400> 4

Arg Lys Ser Val His Ile Gly Pro Gly Gln Ala Phe Tyr Ala Thr Gly  
 1 5 10 15

Asp Ile Ile Gly Asn Ile Arg Lys Ala His Cys  
 20 25

<210> 5  
 <211> 35  
 <212> PRT  
 <213> Human immunodeficiency virus type 1  
 <400> 5

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro  
 1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asn Ile Arg Lys  
 20 25 30

Ala His Cys  
 35

<210> 6  
 <211> 35  
 <212> PRT  
 <213> Human immunodeficiency virus type 1  
 <400> 6

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro  
 1 5 10 15

sequence listing.ST25.txt

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asn Ile Arg Gln  
20 25 30

Ala His Cys  
35

<210> 7  
<211> 35  
<212> PRT  
<213> Human immunodeficiency virus type 1

<400> 7

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asn Met Arg Lys  
20 25 30

Ala His Cys  
35

<210> 8  
<211> 35  
<212> PRT  
<213> Human immunodeficiency virus type 1

<400> 8

Cys Thr Arg Pro Ile Asn Asn Arg Arg Lys Ser Ile His Met Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Asp Ile Arg Lys  
20 25 30

Ala Arg Cys  
35

<210> 9  
<211> 36  
<212> PRT  
<213> Human immunodeficiency virus type 1

<400> 9

Cys Thr Arg Pro Ser Asn Asn Arg Arg Lys Ser Ile His Lys Gly Asp  
1 5 10 15

Gln Asp Lys His Ser Met Glu His Asp Asp Val Ile Gly Asp Ile Arg  
20 25 30

Lys Ala Arg Cys

sequence listing.ST25.txt

35

<210> 10  
 <211> 35  
 <212> PRT  
 <213> Human immunodeficiency virus type 1

<400> 10

Cys Thr Arg Pro Ile Asn Asn Arg Arg Lys Ser Ile His Ile Gly Pro  
 1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Asp Ile Arg Gln  
 20 25 30

Ala His Cys  
 35

<210> 11  
 <211> 34  
 <212> PRT  
 <213> Human immunodeficiency virus type 1

<400> 11

Cys Ile Arg Pro Asn Asn Asn Thr Arg Gln Ser Val His Ile Gly Pro  
 1 5 10 15

Gly Gln Ala Leu Tyr Thr Thr Glu Ile Ile Gly Asp Ile Arg Lys Ala  
 20 25 30

His Cys

<210> 12  
 <211> 35  
 <212> PRT  
 <213> Human immunodeficiency virus type 1

<400> 12

Cys Thr Arg Pro Asn Asn Asn Thr Ile Thr Ser Ile Arg Ile Gly Pro  
 1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Ser Ile Ile Gly Asn Ile Arg Gln  
 20 25 30

Ala His Cys  
 35

<210> 13  
 <211> 35  
 <212> PRT

sequence listing.ST25.txt

<213> Human immunodeficiency virus type 1

<400> 13

Cys Thr Arg Pro Asn Asn Asn Thr Ile Thr Ser Ile Arg Ile Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Ser Ile Ile Gly Asn Thr Arg Gln  
20 25 30

Ala His Cys  
35

<210> 14

<211> 35

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 14

Cys Thr Arg Pro Asn Asp Asn Ile Arg Lys Ser Val His Ile Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asp Ile Arg Arg  
20 25 30

Ala His Cys  
35

<210> 15

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer sequence for HIVGao1F

<400> 15

ggcttaggca tctcctatgg caggaagaa

29

<210> 16

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer sequence for HIVGao1R

<400> 16

ggcttaggca tctcctatgg caggaagaa

29

<210> 17

<211> 27

<212> DNA

<213> Artificial Sequence

sequence listing.ST25.txt

<220>  
 <223> Primer sequence for HIVGao2F  
 <400> 17  
 agaaagagca gaagacagtg gcaatga 27

<210> 18  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer sequence for HIVGao2R  
 <400> 18  
 agcccttcca gtccccctt ttctttta 28

<210> 19  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> NL6942F primer used in sequencing of V3 loop of the envelope gene  
 <400> 19  
 gcacagtaca atgtacacat g 21

<210> 20  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> NL7103F primer used in sequencing of V3 loop of the envelope gene  
 <400> 20  
 acaagaccca acaacaatac a 21

<210> 21  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> NL7356R primer used in sequencing of V3 loop of the envelope gene  
 <400> 21  
 tgtattgttg ttgggtcttg t 21

<210> 22  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CCR5 prediction based on alternative residues

sequence listing.ST25.txt

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> "x" can be either G or S

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> "x" can be any amino acid

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> "x" can be any amino acid

<220>  
 <221> misc\_feature  
 <222> (15)..(17)  
 <223> "x" can be any amino acid

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> "x" can be either D or E

<400> 22

Asn Asn Thr Arg Lys Xaa Ile Xaa Ile Gly Pro Gly Xaa Thr Gly Xaa  
 1 5 10 15

Ile Ile Gly

<210> 23  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> CCR5 prediction based on alternative residues

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> "x" can be any amino acid

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> "x" can be any amino acid

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> "x" can be any amino acid

<220>  
 <221> misc\_feature

sequence listing.ST25.txt

```

<222> (16)..(16)
<223> "X" can be any amino acid

<220>
<221> misc_feature
<222> (275)..(275)
<223> "X" can be K, H, or R

<220>
<221> misc_feature
<222> (287)..(287)
<223> "X" can be D or E

<400> 23
Asn Asn Thr Arg Lys Xaa Ile Xaa Ile Gly Pro Gly Xaa Thr Gly Xaa
1          5          10          15

```

Ile Ile Gly

```

<210> 24
<211> 19
<212> PRT
<213> Artificial Sequence

<220>
<223> CCR5 prediction based on alternative residues

```

```

<220>
<221> misc_feature
<222> (6)..(6)
<223> "X" can be any amino acid

```

```

<220>
<221> misc_feature
<222> (8)..(8)
<223> "X" can be any amino acid

```

```

<220>
<221> misc_feature
<222> (13)..(13)
<223> "X" can be any amino acid

```

```

<220>
<221> misc_feature
<222> (16)..(16)
<223> "X" can be any amino acid

```

```

<220>
<221> misc_feature
<222> (275)..(275)
<223> "X" can be any amino acid except K, H, or R

```

```

<220>
<221> misc_feature
<222> (287)..(287)
<223> "X" can be D, E, K, H, or R

```

```

<400> 24

```



sequence listing.ST25.txt

Asn Asn Thr Arg Lys Xaa Ile Xaa Ile Gly Pro Gly Xaa Thr Gly Xaa  
1 5 10 15

Ile Ile Gly

<210> 25  
<211> 19  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> CXCR4 prediction based on alternative residues.

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> "x" can be any amino acid

<220>  
<221> misc\_feature  
<222> (8)..(8)  
<223> "x" can be any amino acid

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> "x" can be any amino acid

<220>  
<221> misc\_feature  
<222> (16)..(16)  
<223> "x" can be any amino acid

<220>  
<221> misc\_feature  
<222> (275)..(275)  
<223> "x" can be K, H, or R

<220>  
<221> misc\_feature  
<222> (287)..(287)  
<223> "x" can be K, H, or R

<400> 25

Asn Asn Thr Arg Lys Xaa Ile Xaa Ile Gly Pro Gly Xaa Thr Gly Xaa  
1 5 10 15

Ile Ile Gly

<210> 26  
<211> 35  
<212> PRT  
<213> Human immunodeficiency virus type 1

sequence listing.ST25.txt

<400> 26

Cys Ile Arg Pro Asn Asn Asn Thr Arg Thr Ser Ile Arg Ile Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asn Ile Ile Gly Gly Ile Arg Gln  
20 25 30

Ala Tyr Cys  
35

<210> 27

<211> 35

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 27

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Leu  
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asn Ile Arg Lys  
20 25 30

Ala His Cys  
35

<210> 28

<211> 35

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 28

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Leu Gly Asn Ile Arg Gln  
20 25 30

Ala His Cys  
35

<210> 29

<211> 35

<212> PRT

<213> Human immunodeficiency virus type 1

<400> 29

Cys Thr Arg Pro Asn Asn Asn Thr Arg Lys Ser Val His Ile Gly Pro  
1 5 10 15

sequence listing.ST25.txt

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asp Ile Arg Gln  
20 25 30

Ala Tyr Cys  
35

<210> 30  
<211> 35  
<212> PRT  
<213> Human immunodeficiency virus type 1

<400> 30

Cys Thr Arg Pro Asn Asn Asn Thr Lys Lys Ser Val His Ile Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Ile Ile Gly Asp Ile Arg Gln  
20 25 30

Ala Tyr Cys  
35

<210> 31  
<211> 35  
<212> PRT  
<213> Human immunodeficiency virus type 1

<400> 31

Cys Thr Arg Pro Asn Asp Asn Ile Arg Lys Arg Val His Ile Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Ala Thr Gly Asp Val Ile Gly Asp Ile Arg Arg  
20 25 30

Ala His Cys  
35

<210> 32  
<211> 35  
<212> PRT  
<213> Human immunodeficiency virus type 1.

<400> 32

Cys Thr Arg Pro Ile Asn Asn Arg Arg Lys Ser Ile His Ile Gly Pro  
1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Asp Ile Arg Gln  
20 25 30

Ala His Cys  
35

sequence listing.ST25.txt

<210> 33  
 <211> 35  
 <212> PRT  
 <213> Human immunodeficiency virus type 1

<400> 33

Cys Thr Arg Pro Ser Asn Asn Arg Arg Lys Ser Ile His Met Gly Pro  
 1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Gly Ile Arg Lys  
 20 25 30

Ala Arg Cys  
 35

<210> 34  
 <211> 35  
 <212> PRT  
 <213> Human immunodeficiency virus type 1

<400> 34

Cys Thr Arg Pro Ser Asn Asn Arg Arg Lys Ser Ile His Met Gly Pro  
 1 5 10 15

Gly Gln Ala Phe Tyr Gly Thr Asp Asp Ile Ile Gly Asp Ile Arg Lys  
 20 25 30

Ala Arg Cys  
 35

1

1